

PROGRAMME - CANADA 1993

**International High Speed Networks for  
Scientific and Technical Information**

**THEME**

Wide area electronic networks have been developing rapidly in recent years, and are being interlinked to form an international network. Information centres will have a tremendous opportunity to make use of these networks for the dissemination of STI in aerospace, defence and other fields. On the other hand, these networks also give rise to many new concerns and issues. This Specialists' Meeting of participants from NATO countries will review the current situation, assess future possibilities and examine issues, such as standards, security, management, property rights/copyright, etc., from the point of view of the end user, the information provider, and the network manager.

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KEYNOTE ADDRESS

SESSION I. Overview

**1) Global information networks - what they are**

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- Information and Research networks.
- Network types, how they link etc.
- Description of existing networks inside and outside the aerospace/defence community, relevant to scientific research education and related users.

The National Library of Canada and its IFLA International Office for Universal Dataflow and Telecommunications can provide an introductory overview with a world perspective.

**2) Global Information Networks - How they work**

ESA/GE?

- (What the STI manager needs to know)
- protocols, standards, applications

SESSION II. Management

**3) Regulatory issues**

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- Security of data (system and access security)
- integrity of files transferred/reserved
- Intellectual property rights
- Legal/administrative issues
- Regulations applied to common carriers
- Effects of carrier charges

N.B. this topic must be treated at a general enough level to enable the meeting to be unclassified.

- 4) **Standards for transmission** of STI bibliographic and  
UK documentary information on networks (Document related  
rather than communication related standards)
- EDI, Directories, ILL protocols, file transfer, CALS  
(SGMC, ODA/ODIF) etc.
- 5) **Virtual library** (library without walls) created by the use  
US of multiple information sources on networks. Difficulty of  
navigating through multiple networks, need for directories.  
Possible changes in existing libraries and information  
centre.

### SESSION III. - Applications and Case Studies

- 6) **Document delivery(1)**  
CA high volume scanning and transmission of library documents  
internationally.
- CISTI will have nearly 2 years of experience of this by the  
time of the meeting, including possibly the development of  
a generic scanning workstation.
- 7) **Document Delivery(2)**  
FR similar to paper 6; case from Europe.
- Speaker from large library/document supply centre or from  
publishing company.
- 8) **Electronic journals**  
UK refereeing, availability, archiving; techniques, e.g.  
hypertext; paper by a publisher or a learned society with  
some experience.
- 9) **Bulletin boards, electronic mail, conferencing**  
SP current use by scientists and engineers; effects on  
libraries and information centres - do they have a role?
- 10) **Multi-media information**  
Handling of audio, video, images and text files as well as  
graphic and numeric information. Special problems involved  
in the transmission of such information

### SESSION IV. The future

- 11) **Vision of the Future(1)**  
US Wide area information servers to find and retrieve  
information on networks
- 12) **Vision of the Future(2)**  
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### SESSION V. - Forum Discussion